

shown as a 3-dot braille cell combined with a 3-bit code shown as a 3-dot braille cell and a standard 8-dot braille cell.

**AMENDED CLAIMS:**

**I CLAIM:**

1. (currently amended) An eight bit code ~~read from left to right on at least eight sensors~~ comprising:

a first four bit code combined with a second four bit code to produce data, wherein an inactive bit is represented by a smaller data character and an active bit is represented by a larger data character.

2. (currently amended) An eight bit code ~~read from left to right on at least eight sensors to produce data,~~ in accordance with claim 1, wherein:

- a) a ~~left~~ first bit of said ~~eight~~ first four bit code has the numeric value of one, and
- b) a second bit of said ~~eight~~ first four bit code has the numeric value of two, and
- c) a third bit of said ~~eight~~ first four bit code has the numeric value of four, and
- d) a fourth bit of said ~~eight~~ first four bit code has the numeric value of eight, and
- e) a ~~fifth~~ first bit of said ~~eight~~ second four bit code has the numeric value of sixteen, and
- a) a ~~sixth~~ second bit of said ~~eight~~ second four bit code has the numeric value of thirty-two, and
- b) a ~~seventh~~ third bit of said ~~eight~~ second four bit code has the numeric value of sixty-four, and
- h) a ~~right eighth~~ fourth bit of said ~~eight~~ second four bit code has the numeric value of one hundred and twenty-eight.

3. (currently amended) A method of ~~producing data using an eight bit code read from left to right~~ a first four bit code combined with a second four bit code on at least eight sensors comprising the step of:

~~activating~~ activation of at least one sensor to enter an eight sensor data entry mode, wherein an inactive sensor is represented by a smaller data character and an active sensor is represented by a larger data character.

4. (currently amended) A method of ~~producing data using an eight bit code read from left to right~~ a first four bit code combined with a second four bit code on at least eight sensors, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors to enter an said eight sensor data entry mode.

5. (currently amended) A method of ~~producing data using an eight bit code read from left to right~~ a first four bit code combined with a second four bit code on at least eight sensors, in accordance with claim 3, comprising the step of:

~~activating~~ activation of all said eight sensors to enter an said eight sensor data entry mode.

6. (currently amended) A method of ~~producing data using an eight bit code read from left to right~~ a first four bit code combined with a second four bit code on at least eight sensors, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors to produce a data character.

7. (currently amended) A method of ~~producing data using an eight bit code read from left to right~~ a first four bit code combined with a second four bit code on at least eight sensors, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors to produce a function.

8. (currently amended) A method of ~~producing data using an eight bit code read from left to right~~ a first four bit code combined with a second four bit code on at least eight sensors, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors to produce a data character string.

9. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors followed by the ~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors to produce a data character.

10. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors followed by the ~~activating~~ activation of at least one ~~said~~ sensor of said eight sensors to produce a data character string.

11. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of a first set of four sensors combined with ~~non-activating~~ activation of a second set of four sensors to produce a vowel.

12. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of a first set of four sensors combined with the ~~activating~~ activation of at least one ~~said~~ sensor of a second set of four sensors to produce a vowel.

13. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of a first set of four sensors combined with the ~~activating~~ activation of at least one ~~said~~ sensor of a second set of four sensors to produce a consonant.

14. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~non-activating~~ activation of a first set of four sensors combined with the ~~activating~~ activation of at least one ~~said~~ sensor of a second set of four sensors to produce a space.

15. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~non-activating~~ activation of a first set of four sensors combined with the ~~activating~~ activation of at least one ~~said~~ sensor of a second set of four sensors to produce a punctuation mark.

16. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of a first set of four sensors combined with the ~~activating~~ activation of at least one ~~said~~ sensor of a second set of four sensors to produce a symbol.

17. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of a first set of four sensors combined with the ~~activating~~ activation of all ~~said~~ sensors of a second set of four sensors to produce a number.

18. (currently amended) A method of using a first four bit code combined with a second four bit code ~~on at least eight sensors~~, in accordance with claim 3, comprising the step of:

~~activating~~ activation of at least one ~~said~~ sensor of a first set of four sensors combined with the ~~activating~~ activation of all but one sensor of a second set of four sensors

to produce a function.

19. (currently amended) An apparatus for entering an eight bit code read from left to right a first four bit code combined with a second four bit code on at least eight sensors wherein:

- a) said first four bit code has a first sensor ~~left bit has the numeric value of one and is a left digit sensor, and~~
- b) said first four bit code has a second sensor ~~bit has the numeric value of two and is a left digit sensor, and~~
- c) said first four bit code has a third sensor ~~bit has the numeric value of four and is a left digit sensor, and~~
- d) said first four bit code has a fourth sensor ~~bit has the numeric value of eight and is a left digit sensor, and~~
- e) said second four bit code has a fifth sensor ~~bit has the numeric value of sixteen and is a right digit sensor, and~~
- f) said second four bit code has a sixth sensor ~~bit has the numeric value of thirty-two and is a right digit sensor, and~~
- g) said second four bit code has a seventh sensor ~~bit has the numeric value of sixty-four and is a right digit sensor, and~~
- h) said second four bit code has an [[a]] eighth sensor ~~right bit has the numeric value of one hundred and twenty-eight and is a right digit sensor.~~

20. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors comprising the step of:

- a) ~~activating~~ activation of one said left digit a first sensor of said eight sensors to move ~~moves an~~ said object in a first direction, and
- b) ~~activating~~ activation of one said right digit a second sensor of said eight sensors to ~~move~~ moves said object in a second opposite direction.

21. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of one said left digit said first sensor moves an said object to the left, and
- b) ~~activating~~ activation of one said right digit said second sensor moves said object to the right.

22. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of one said left digit said first sensor rotates an said object to the left, and
- b) ~~activating~~ activation of one said right digit said second sensor rotates said object to the right.

23. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of one said left digit said first sensor moves an said object backward, and
- b) ~~activating~~ activation of one said right digit said second sensor moves said object forward.

24. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of one said left digit said first sensor moves an said object down, and
- b) ~~activating~~ activation of one said right digit said second sensor moves said object up.

25. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

~~activating~~ activation of one said left digit said first sensor and ~~one said right digit~~ said second sensor simultaneously moves an said object forward.



26. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

~~activating activation of one said left digit~~ said first sensor and ~~one said right digit~~ said second sensor simultaneously followed by ~~activating activation of one said left digit~~ said first sensor and ~~one said right digit~~ said second sensor simultaneously moves an said object backward.

27. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) a first ~~left bit~~ sensor has the numeric value of one ~~and is a left digit sensor~~, and
- b) a second bit sensor has the numeric value of two ~~and is a left digit sensor~~, and
- c) a third bit sensor has the numeric value of four ~~and is a left digit sensor~~, and
- d) a fourth bit sensor has the numeric value of eight and is ~~a left thumb~~ said first sensor, and
- e) a fifth bit sensor has the numeric value of sixteen and is ~~a right thumb~~ said second sensor, and
- f) a sixth bit sensor has the numeric value of thirty-two ~~and is a right digit sensor~~, and
- g) a seventh bit sensor has the numeric value of sixty-four ~~and is a right digit sensor~~, and
- h) a eighth ~~right bit~~ sensor has the numeric value of one hundred and twenty-eight ~~and is a right digit sensor~~.

28. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of a ~~left thumb~~ first sensor moves the ~~a~~ cursor to the left, and
- b) ~~activating~~ activation of a ~~right thumb~~ second sensor moves said cursor to the right.

29. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of a ~~left thumb~~ first sensor deletes data to the left of the ~~a~~ cursor, and
- b) ~~activating~~ activation of a ~~right thumb~~ second sensor deletes data to the right of said cursor.

30. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of a ~~left thumb~~ first sensor reverses the last change, and
- b) ~~activating~~ activation of a ~~right thumb~~ second sensor reverses the last undo.

31. (currently amended) A method of ~~entering an eight bit code read from left to right on~~ moving an object using at least eight sensors, in accordance with claim 20, comprising the step of:

- a) ~~activating~~ activation of a ~~left thumb~~ first sensor and a ~~right thumb~~ second sensor simultaneously exits ~~said~~ a first data entry mode and enters a cursor movement mode, and
- b) ~~activating~~ activation of said ~~left thumb~~ first sensor moves the ~~a~~ cursor to the left and ~~activating~~ activation of said ~~right thumb~~ second sensor moves said cursor to the right; and
- c) ~~activating~~ activation of said ~~left thumb~~ first sensor and said ~~right thumb~~ second sensor simultaneously exits said cursor movement mode and enters ~~a delete~~ an editing mode, and
- d) ~~activating~~ activation of said ~~left thumb~~ first sensor deletes data to the left of said cursor and ~~activating~~ activation of said ~~right thumb~~ second sensor deletes data to the right of said cursor, and
- e) ~~activating~~ activation of said ~~left thumb~~ first sensor and said ~~right thumb~~ second sensor simultaneously exits said ~~delete~~ editing mode and re-enters said first data entry mode.

32. (currently amend d) A method of producing data using at least eight sensors comprising the step of:

shifting out of a first mode and shifting into a second mode by entering at least one data character.

33. (currently amended) A method of producing data using at least eight sensors, in accordance with claim 32, comprising the step of:

shifting out of a first mode and shifting into a second mode by entering the a language code data character string.

34. (currently amended) A method of producing data using at least eight sensors, in accordance with claim 32, comprising the step of:

shifting out of a first mode and shifting into a second mode by entering the a country code data character string.

35. (currently amended) A method of producing data using at least eight sensors, in accordance with claim 32, comprising the step of:

shifting out of a first mode and shifting into a second mode by entering the a country's area code data character string.

## DRAWINGS AMENDMENTS

The originally filed FIGS. 4A and 4B-C were created using Microsoft's True Type Marlett font. When Microsoft created the monospaced True Type Marlett font they failed to include a space and is the reason why there are dashes between the braille cells. The Marlett font also can not produce a standard 6-dot braille cell because unused dots require a space. FIGS. 4A and 4B-C have been corrected and now show a standard 6-dot braille cell on the top of a data character and a true 4-dot braille cell combined with a true 4-dot braille cell on the bottom. Added FIGS. 5A and 5B-C, for the use of the Examiner only and not for entry, show a true 3-dot braille cell next to a true 3-dot braille cell on the top of a data character and standard 8-dot braille cell on the bottom. The 8-dot braille found in Burrell, IV (5,993,089) and in FIGS. 5A and 5B-C was tested and rejected by the Braille Authority of North America (BANA). The true 4-dot braille cells combined with a true 4-dot braille cells in FIG. 4B have been corrected and now conform to the codes found in FIGS. 1P and 3F. The dash (-) or minus sign true 4-dot braille cell combined with a true 4-dot braille cell in the first line of FIG. 4C has been corrected and now conforms to the code shown in the last line of FIG. 4C, FIGS. 1P and 3G. The standard keyboard's standard quote sign (" ) has been inserted to show the true 4-dot braille cell combined with a true 4-dot braille cell and that 6-dot braille does not use the standard keyboard's standard quote sign ("). The pending patent application "VIRTUAL KEYBOARD AND CONTROL MEANS" was created as a new form of tactile readable braille after the 8-dot braille rejection by the Braille Authority of North America.